APPENDIX 9-6 – GMS GROUNDWATER MODELS

DVD(s) are included with the following additional GMS groundwater models for evaluation of seepage from Reservoir A-1 submitted on October 13, 2005:

1. existing.gpr – Baseline, existing conditions (pre-reservoir) model run
2. alt#1_res12ft.gpr – Post-reservoir model run. Reservoir depth 12 ft, continuous embankment cross-section and setbacks used along entire reservoir (not including design incorporating STA-3/4 Supply Canal Perimeter Levee), cutoff wall depth 34 ft, seepage canal depth 13.5 ft with canal levels held at 10 ft deep
3. alt#1_res8-8ft.gpr - Post-reservoir model run. Reservoir depth 8.8 ft (average depth from WBM output), continuous embankment cross-section and setbacks used along entire reservoir (not including design incorporating STA-3/4 Supply Canal Perimeter Levee), cutoff wall depth 34 ft, seepage canal depth 13.5 ft with canal levels held at 10 ft deep
4. alt#2_res12ft.gpr - Post-reservoir model run. Reservoir depth 12 ft, cutoff wall depth 34 ft along northwest, north, and east reservoir boundaries and 10 ft along the STA-3/4 Supply Canal, seepage canal depth 10 ft along northwest, north, and east reservoir boundaries and no seepage canal along the STA-3/4 Supply Canal
5. alt#2_res8-8ft.gpr - Post-reservoir model run. Reservoir depth 8-8 ft (average depth from WBM output), cutoff wall depth 34 ft along northwest, north, and east reservoir boundaries and 10 ft along the STA-3/4 Supply Canal, seepage canal depth 10 ft along northwest, north, and east reservoir boundaries and no seepage canal along the STA-3/4 Supply Canal
6. alt#3_res12ft.gpr - Post-reservoir model run. Reservoir depth 12 ft, cutoff wall depth 34 ft along northwest, north, and east reservoir boundaries and 10 ft along the STA-3/4 Supply Canal, seepage canal depth 13.5 ft along northwest, north, and east reservoir boundaries with canal level held at 10 ft deep and no seepage canal along the STA-3/4 Supply Canal
7. alt#3_res8-8ft.gpr - Post-reservoir model run. Reservoir depth 8-8 ft (average depth from WBM output), cutoff wall depth 34 ft along northwest, north, and east reservoir boundaries and 10 ft along the STA-3/4 Supply Canal, seepage canal depth 13.5 ft along northwest, north, and east reservoir boundaries with canal level held at 10 ft deep and no seepage canal along the STA-3/4 Supply Canal
8. wells_refined_existing2.gpr – Baseline wells alternative, Pre-reservoir model run with 550 100-ft deep wells spaced 100 ft apart, pumping into a 10-ft deep seepage canal

9. wells_refined_future2.gpr – Post-reservoir model run. Reservoir depth 12 ft, 550 100-ft deep wells spaced 100 ft apart, pumping into a 10-ft deep seepage canal
10. wells_refined_future2_8-8ft.gpr - Post-reservoir model run. Reservoir depth 8.8 ft (average depth from WBM output), 550 100-ft deep wells spaced 100 ft apart, pumping into a 10-ft deep seepage canal

DVD(s) are included with the following GMS groundwater models for evaluation of seepage from Reservoir A-1 originally submitted on July 29, 2005:

1. baseline.gpr – Baseline, existing conditions (pre-reservoir) model run
2. scenario1.gpr – Post-reservoir model run. Reservoir depth 1 ft, cutoff wall depth 34 ft, seepage canal depth 10 ft.
3. scenario2.gpr – Post-reservoir model run. Reservoir depth 1 ft, cutoff wall depth 34 ft, seepage canal depth 20 ft.
4. scenario3.gpr – Post-reservoir model run. Reservoir depth 1 ft, cutoff wall depth 69 ft, seepage canal depth 10 ft.
5. scenario4.gpr – Post-reservoir model run. Reservoir depth 1 ft, cutoff wall depth 69 ft, seepage canal depth 20 ft.
6. scenario5.gpr – Post-reservoir model run. Reservoir depth 3 ft, cutoff wall depth 34 ft, seepage canal depth 10 ft.
7. scenario6.gpr – Post-reservoir model run. Reservoir depth 3 ft, cutoff wall depth 34 ft, seepage canal depth 20 ft.
8. scenario7.gpr – Post-reservoir model run. Reservoir depth 3 ft, cutoff wall depth 69 ft, seepage canal depth 10 ft.
9. scenario8.gpr – Post-reservoir model run. Reservoir depth 3 ft, cutoff wall depth 69 ft, seepage canal depth 20 ft.
10. scenario9.gpr – Post-reservoir model run. Reservoir depth 6 ft, cutoff wall depth 34 ft, seepage canal depth 10 ft.
11. scenario10.gpr – Post-reservoir model run. Reservoir depth 6 ft, cutoff wall depth 34 ft, seepage canal depth 20 ft.
12. scenario11.gpr – Post-reservoir model run. Reservoir depth 6 ft, cutoff wall depth 69 ft, seepage canal depth 10 ft.
13. scenario12.gpr – Post-reservoir model run. Reservoir depth 6 ft, cutoff wall depth 69 ft, seepage canal depth 20 ft.
14. scenario13.gpr – Post-reservoir model run. Reservoir depth 12 ft, cutoff wall depth 34 ft, seepage canal depth 10 ft.
15. scenario14.gpr – Post-reservoir model run. Reservoir depth 12 ft, cutoff wall depth 34 ft, seepage canal depth 20 ft.
16. scenario15.gpr – Post-reservoir model run. Reservoir depth 12 ft, cutoff wall depth 69 ft, seepage canal depth 10 ft.

17. scenario16.gpr – Post-reservoir model run. Reservoir depth 12 ft, cutoff wall depth 69 ft, seepage canal depth 20 ft.
18. scenario17.gpr – Post-reservoir model run. Reservoir depth 15 ft, cutoff wall depth 34 ft, seepage canal depth 10 ft.
19. scenario18.gpr – Post-reservoir model run. Reservoir depth 15 ft, cutoff wall depth 34 ft, seepage canal depth 20 ft.
20. scenario19.gpr – Post-reservoir model run. Reservoir depth 15 ft, cutoff wall depth 69 ft, seepage canal depth 10 ft.
21. scenario20.gpr – Post-reservoir model run. Reservoir depth 15 ft, cutoff wall depth 69 ft, seepage canal depth 20 ft.
22. scenario21.gpr – Post-reservoir model run. Reservoir depth 18 ft, cutoff wall depth 34 ft, seepage canal depth 10 ft.
23. scenario22.gpr – Post-reservoir model run. Reservoir depth 18 ft, cutoff wall depth 34 ft, seepage canal depth 20 ft.
24. scenario23.gpr – Post-reservoir model run. Reservoir depth 18 ft, cutoff wall depth 69 ft, seepage canal depth 10 ft.
25. scenario24.gpr – Post-reservoir model run. Reservoir depth 18 ft, cutoff wall depth 69 ft, seepage canal depth 20 ft.